#### Water Supply 4-28-2008 Envision 2040

■ Issue # 1 ~ Water Supply Outlook

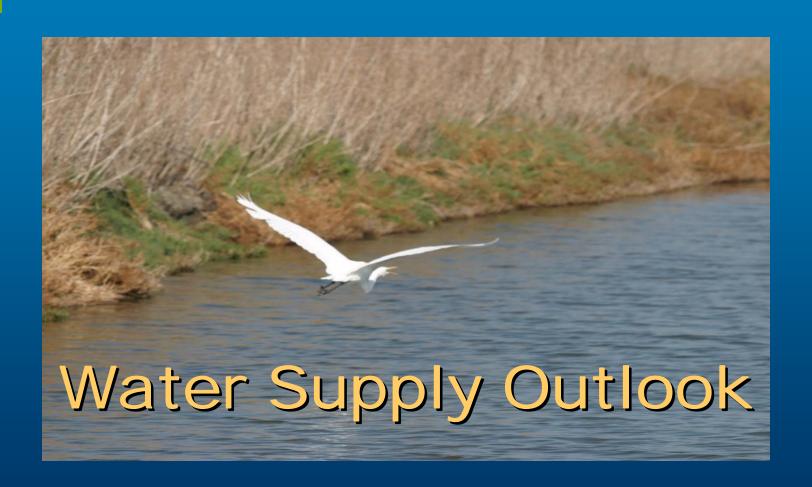
Issue # 2 ~ Water Conservation

Issue # 3 ~ Recycled Water

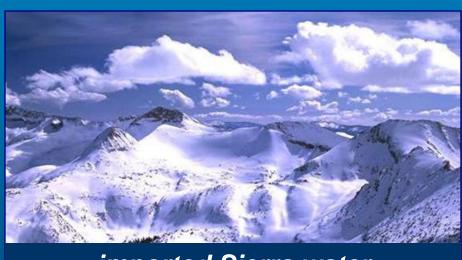


Santa Clara Valley Water District

#### Issue #1



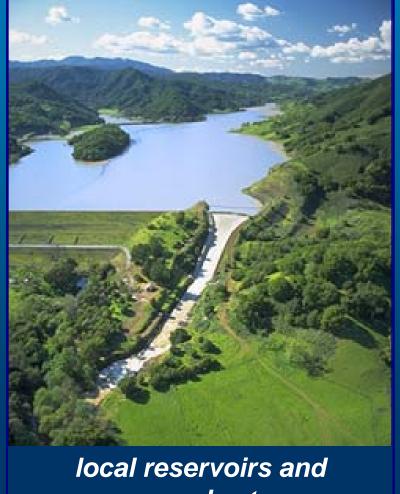
# Our diverse water supply portfolio



imported Sierra water



recycled water

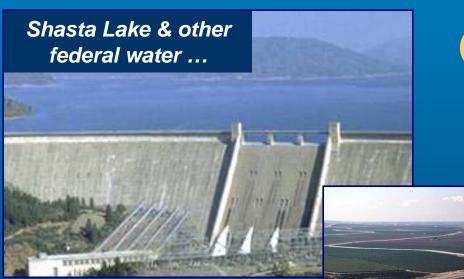


groundwater

# We tap 3 imported water systems



## We tap 3 imported water systems



2 Federal Central Valley Project (since 1987)

Photo courtesy of US Bureau of Reclamation

... travels in Delta-Mendota Canal ...

... to San Luis Reservoir and pumped to valley.

# We tap 3 imported water systems

3 SFPUC Hetch Hetchy (individual city contracts since 1950s)



## All state & federal water flows through the Delta



Photo courtesy of California Department of Water Resources

### Delta Risks to Water Supply

#### **Pumping restrictions**



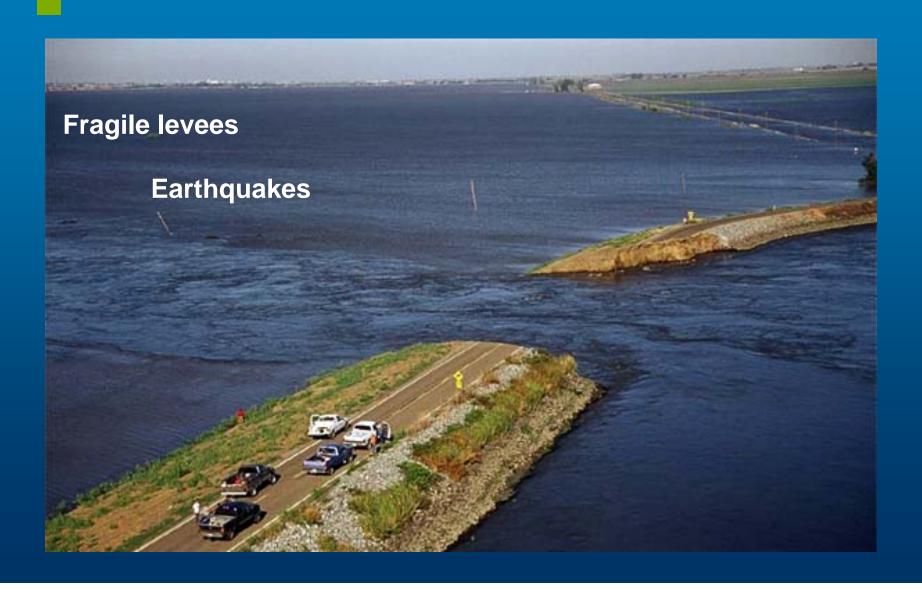




### Degraded water quality

Photos courtesy of US Bureau of Reclamation

### Delta Risks to Water Supply



### Delta Risks to Water Supply

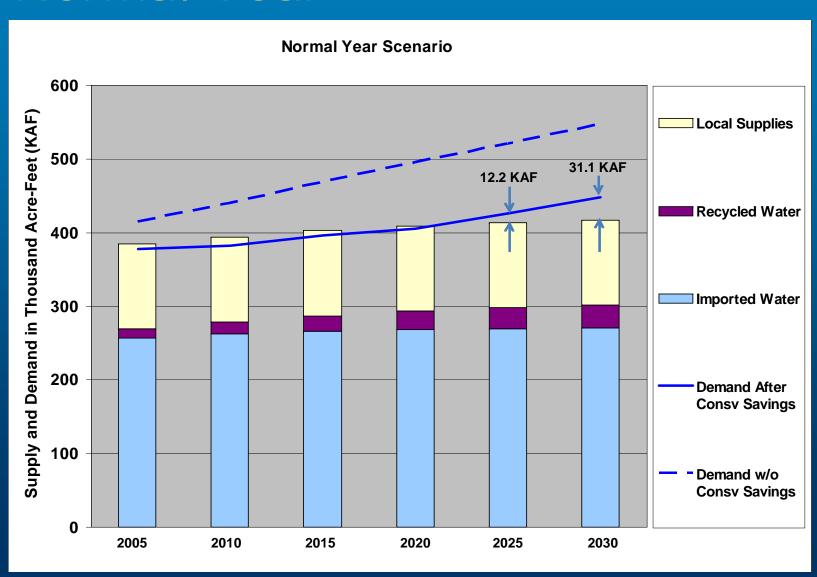
Aging conveyance system

Lift pumps, California Aqueduct



Photos courtesy of US Bureau of Reclamation

## Water Supply Outlook ~ Normal Year



# Climate change ~ potential impacts to water supply







## How do we ensure a reliable long term water supply?

- Protect existing supplies and infrastructure (Baseline)
- Solve Delta problems
- Advocate for a "smarter" water delivery system
- Continue investment in local resources
- Increase water use efficiency
- Advocate for pertinent legislation
- Increase regional coordination

#### Issue #2

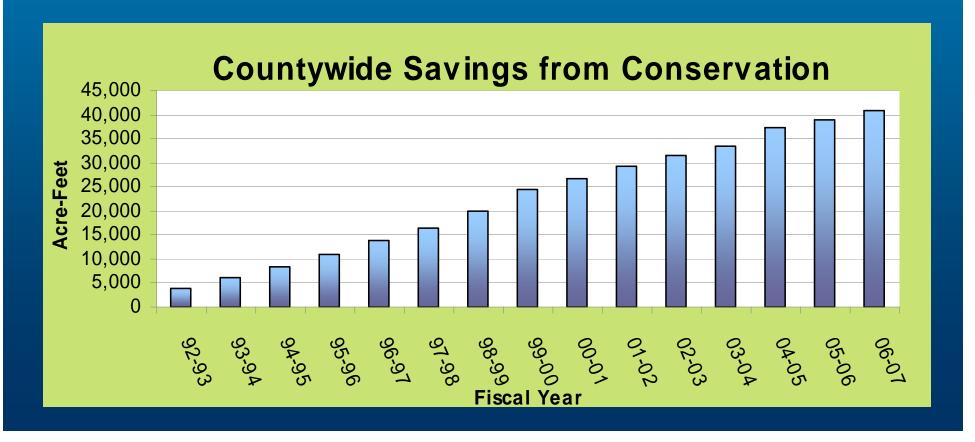


Anderson Reservoir in year four of 1987-1992 drought

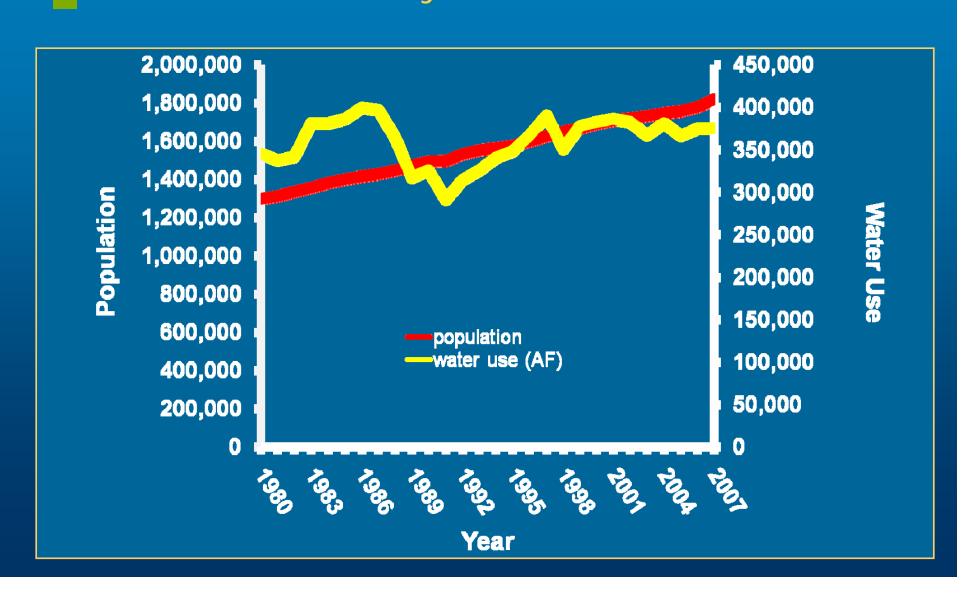
### 2007 Water Conservation

Countywide: 41,000 acre feet per year

San José: 20,000 acre feet per year



## Population & Water Use Santa Clara County



### Water Conservation Goals

**Long Term Target (by 2030)** 

- Conserve 100,000 acre feet per year countywide
- Conserve 50,000 acre feet per year in San José

### Conservation Program Overview

- 10 Residential programs
- 10 Commercial programs
- 2 Agricultural programs



US EPA Award in 2007



## Conservation Programs ~ Residential





Clothes Washer Rebates



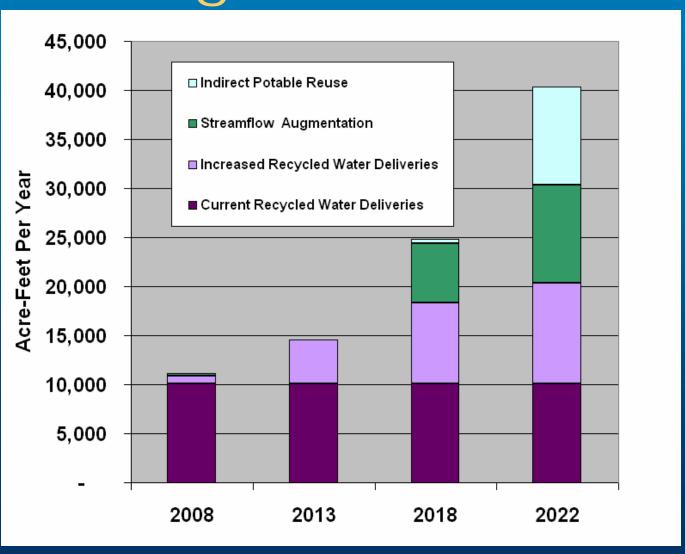
## Priorities to Achieve Our Conservation Goals

- Expand outreach/education
- Continue existing programs
- Support new water efficient technologies
- Adopt water efficiency policies and ordinances
- Secure funding

#### Issue #3



# Components of water reuse goals



# Overview ~ Current water recycling activities

- South Bay Water Recycling expansion
- Facilities for expanding water reuse
- Community outreach
- Stream flow augmentation study
- Rates, ordinances and fees



### System expansion



#### **SBWR** statistics

- 109 miles of pipeline —
- 12 miles of new extensions -
- 9.5 MG storage



- 14.4 MGD last two summers
- 10,000 AF/Year delivered in 2007
- 21 billion gallons delivered since 1997



# How to expand the use of recycled water

- Developer funding of pipeline extensions and system improvements
- Dual-plumbing & cooling use for developments
- Set rates to maintain fiscal health and encourage recycled water use

## Key points to consider in Envision San Jose 2040

- Imported water supplies are becoming less reliable
- San José needs to increase water conservation
- Recycled water is an effective strategy to reduce our reliance on imported water